

**ABSTRACT**

The present invention relates to a motor vehicle electrical system, comprising a generator, a battery, a high-capacity capacitor and a power distributor for controllably supplying energy to individual load circuits of the motor vehicle. The generator, the battery and the high-capacity capacitor are connected in parallel. The electrical connection line between the battery and the power distributor has a cross-section of less than  $10 \text{ mm}^2$  if the line is less than 2 m long while

5 having a cross-section of less than  $40 \text{ mm}^2$  if the line is more than 2 m long.